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NPIC/TSSG/ESD/EL-32/69
7 April 1969

MEMORANDUM FOR: Chief, Development and Engineering Division, TSSG

ATTENTION: [REDACTED]

SUBJECT: Test Grids for [REDACTED] Stereocomparator

1. The Exploratory Laboratory has completed production of 60 test grids for TSSG/DED. These grids will be used to check out various optical components on the [REDACTED] Stereocomparator currently under development. [REDACTED] will use some of the grids immediately in building the optics for the system. [REDACTED] and ESD/TEB will use them in their future tests.

2. Forty anamorphic grids photographically reduced to four different sizes (6.67X, 10X, 20X, 60X) from a master target, 8.618" X 10.00", have been made. Ten plates of each size constitute the forty grids. The Cartographic Division at Headquarters produced the master target for the Exploratory Laboratory from a design submitted by DED personnel.

3. A concentric circle test grid was photographically reduced 113.2X from a pattern submitted by ESD/TEB in January, 1969. Ten plates of this pattern were fabricated by EL personnel.

4. Ten plates containing a hexagonal dot array with a maximum of 11 dots across the pattern were also produced. Four of the end products contain the 11 dots within 2 millimeters (188X reduction in two steps) and six contain the 11 dots within a spacing of 10 millimeters (37.6X reduction in two steps). The first reduction in each case was 6X.

5. The various anamorphic grids and the concentric circle pattern were all produced within a pre-determined tolerance of 0.10%. Grids of each reduction size were measured to the nearest micron on the Point Transfer Device by photogrammetric personnel. The dot array reductions were made as close as possible to 2 mm. and 10 mm., but no measurements were made as the tolerance was not as rigid.

Declass Review by
NIMA/DOD

[REDACTED]
NPIC/TSSG/ESD/EL

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GROUP 1
Excluded from automatic
downgrading and
declassification

25X1

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25X1 SUBJECT: Test Grids for Stereocomparator

Distribution:

25X1 Original - TSSG/DED/
1 - TSSG/DED (Info Copy)
1 - TSSG/ESD
1 - TSSG/ESD/TEB
1 - TSSG/ESD/EL

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DEP /PPBS			
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1 0 APR 1969
1. TSSG/DED WLR
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(2)

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25X1